

1/40

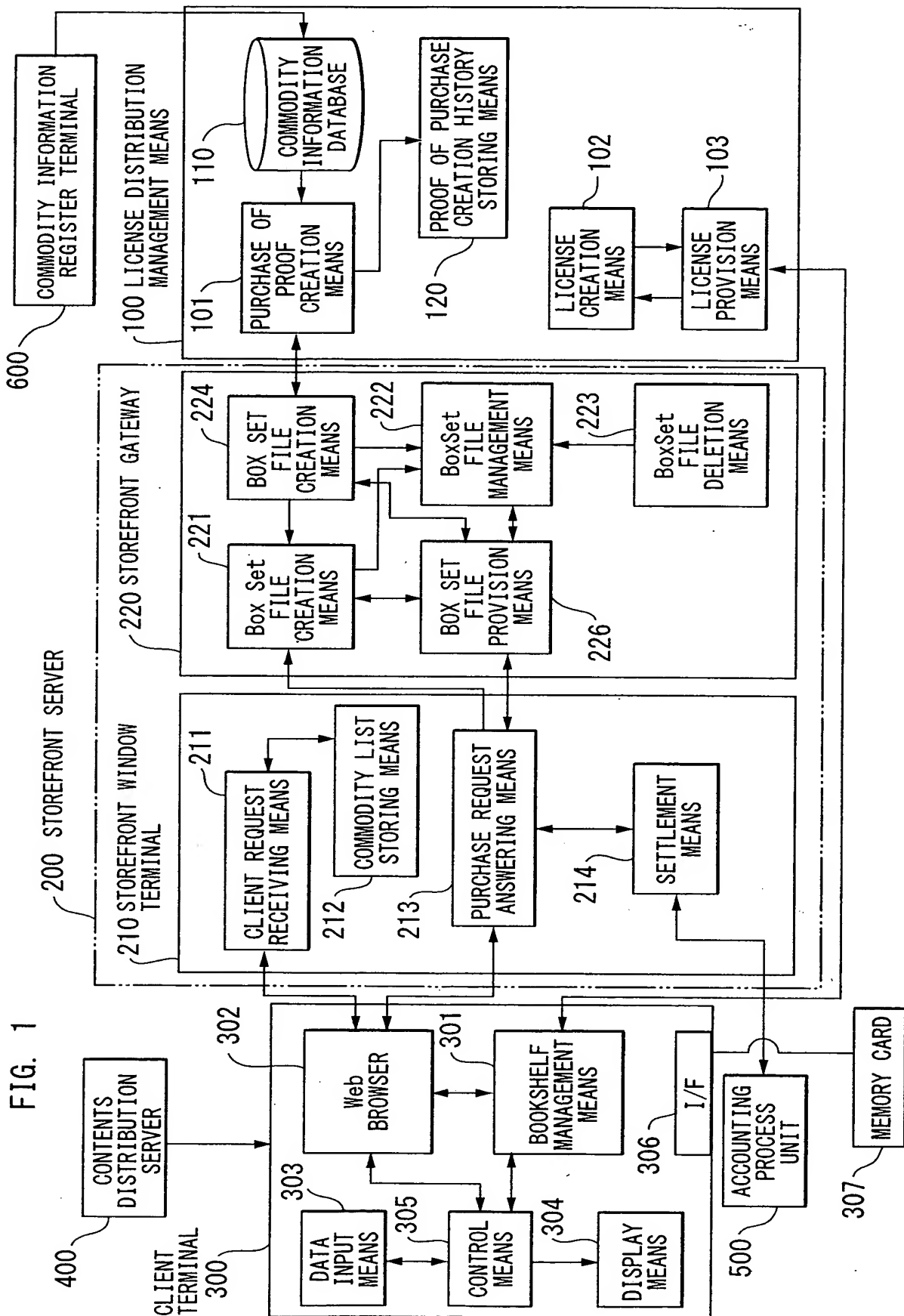
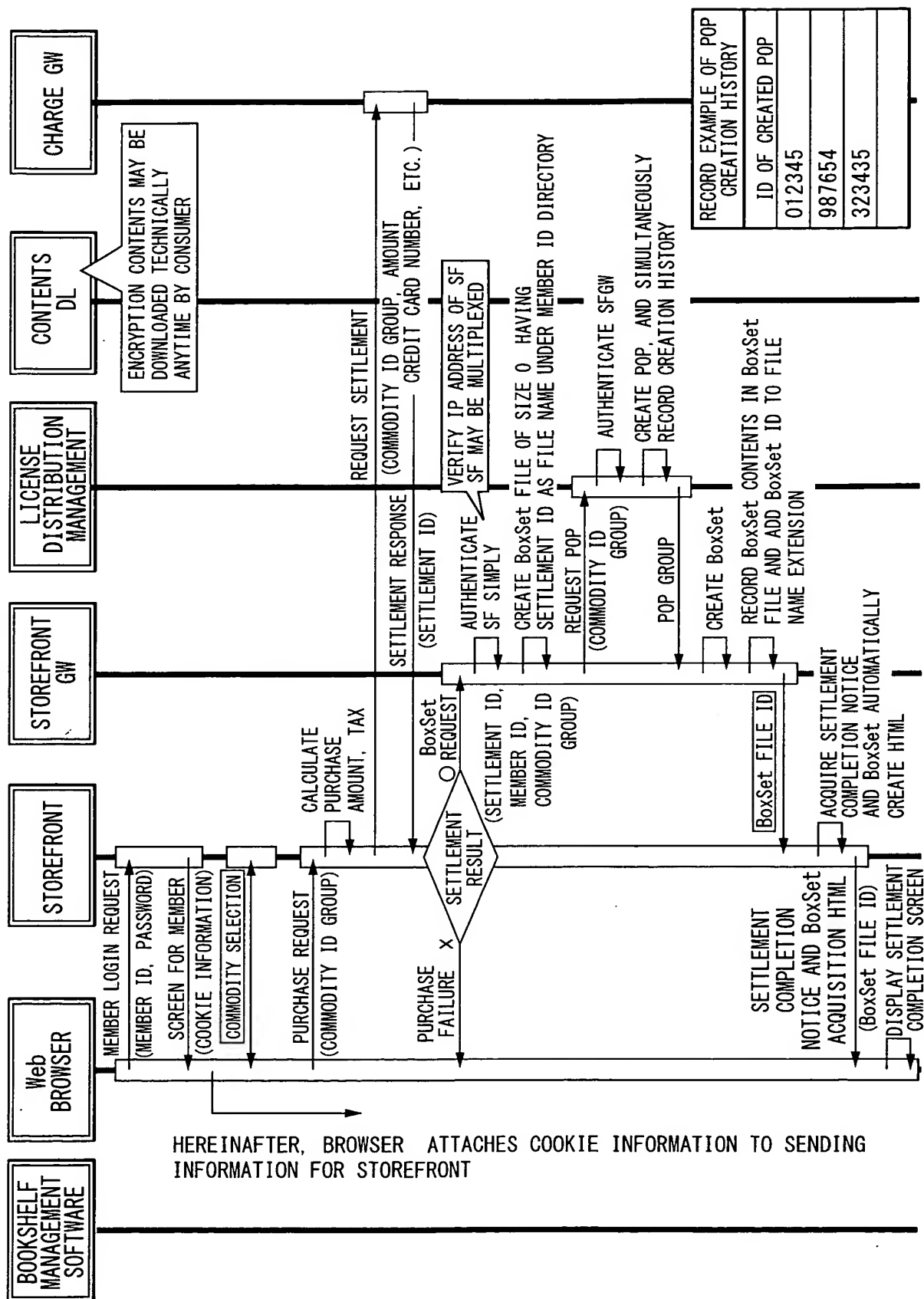
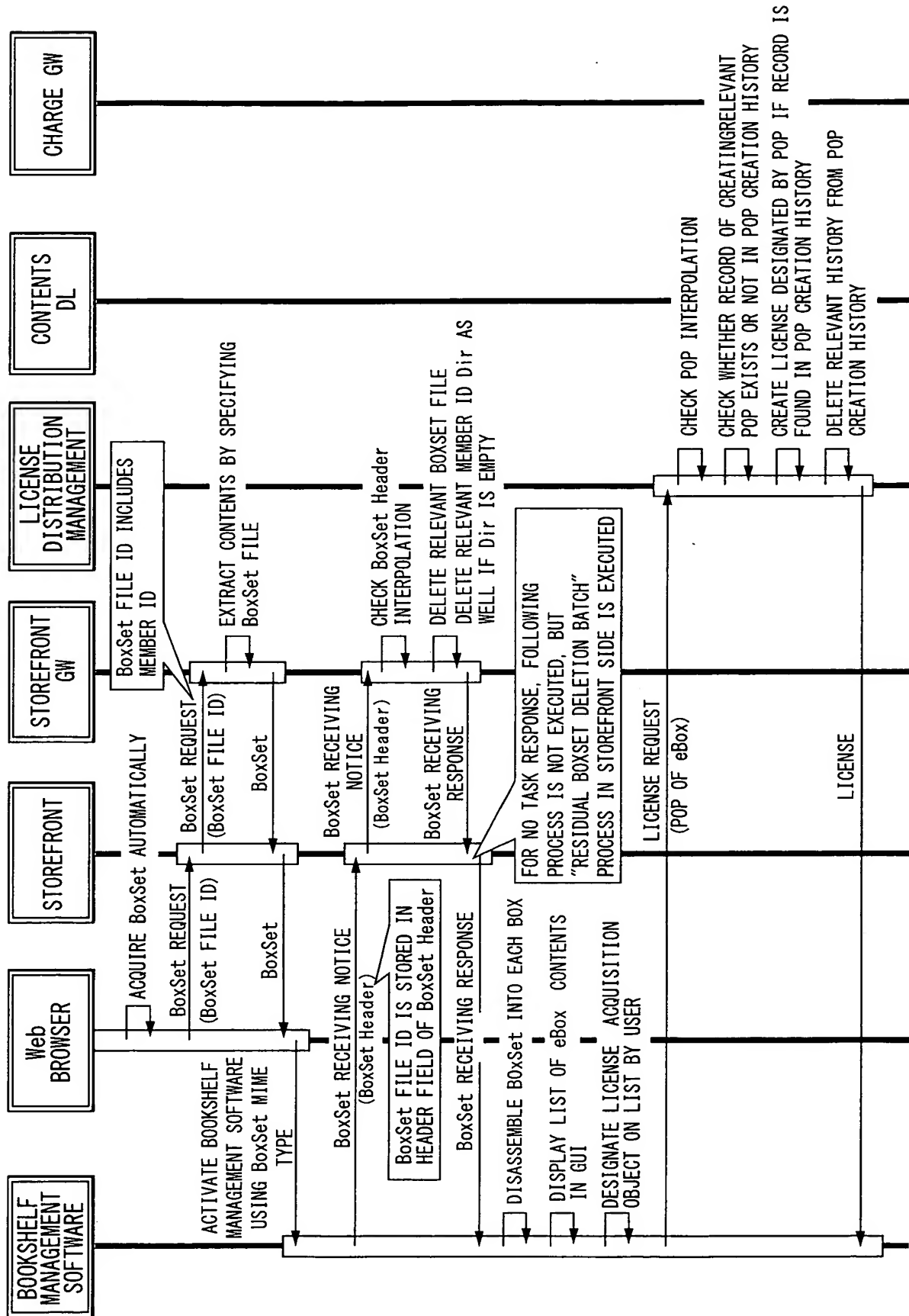


FIG. 2



3/40

FIG. 3



4/40

FIG. 4

PROOF OF PURCHASE

PROOF OF PURCHASE ID
COMMODITY ID
PURCHASE ITEM NAME
CONTENTS DOWNLOADING URL
PURCHASE AMOUNT (EXCLUSIVE OF TAX)
CONSUMPTION TAX RATE
PURCHASE DATE AND TIME
IP ADDRESS OF PURCHASE TERMINAL
SHOP NAME PURCHASING ITEMS
STOREFRONT URL
NAME OF LICENSE DISTRIBUTOR
LICENSE DISTRIBUTION MANAGING URL
NAME OF CUSTOMER SUPPORT SERVICE
SUPPORT SERVICE TELEPHONE NUMBER
SUPPORT SERVICE Email ADDRESS
SIGNATURE DATA

FIG. 5

eBOX

PROOF OF PURCHASE (POP)
METADATA

FIG. 6

BoxSet

BoxSetHeader
eBOX
eBOX
eBOX
:

6/40

FIG. 7

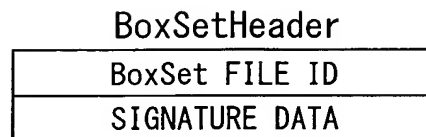


FIG. 8

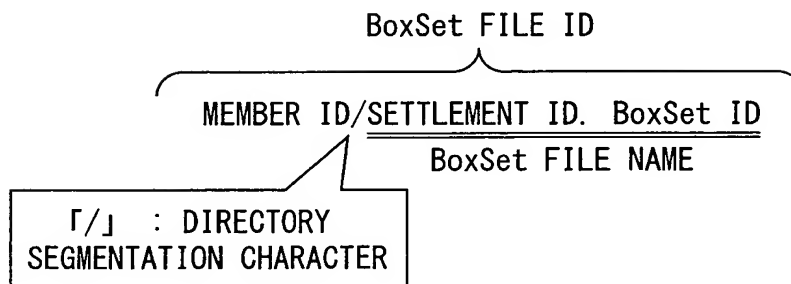
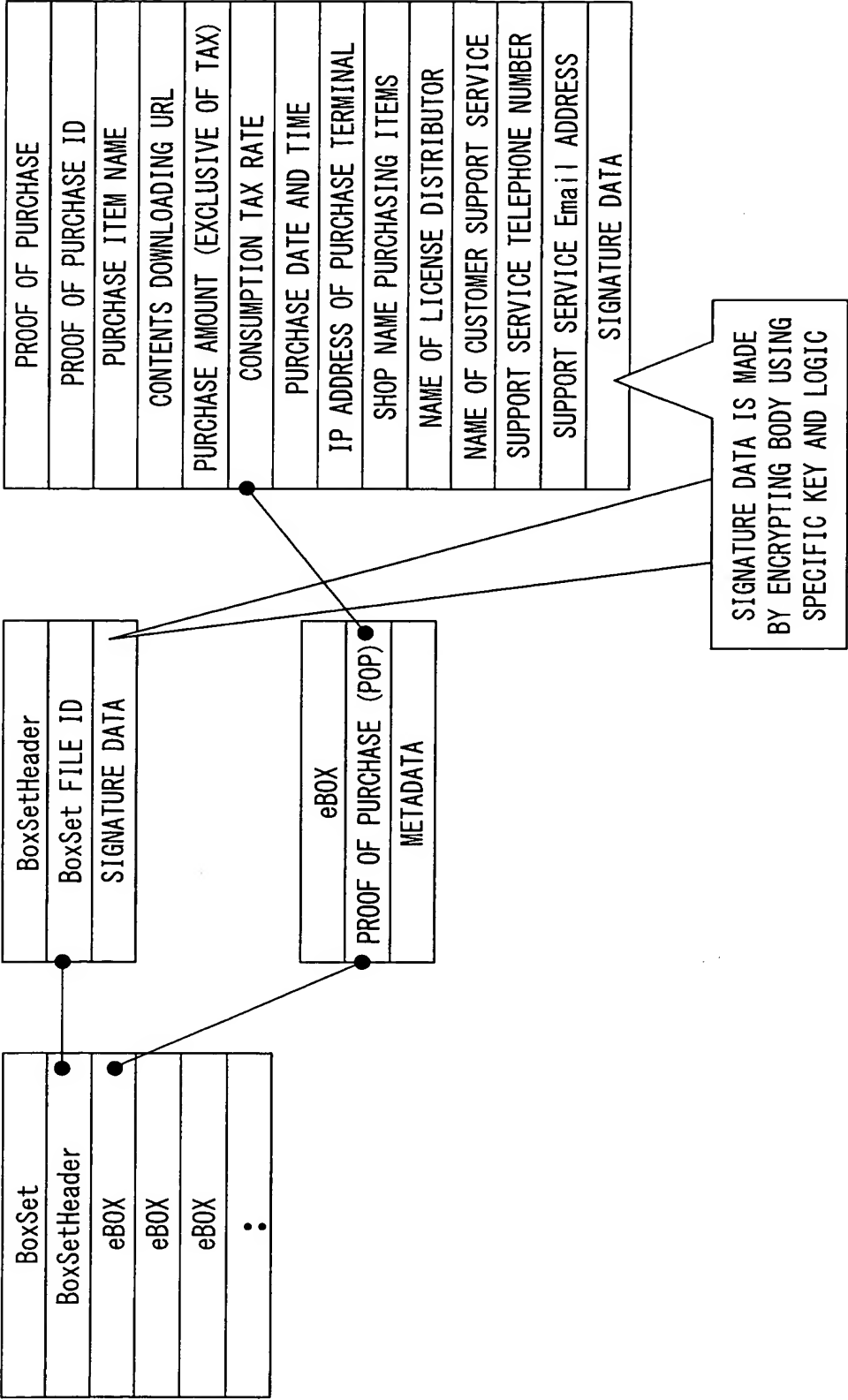
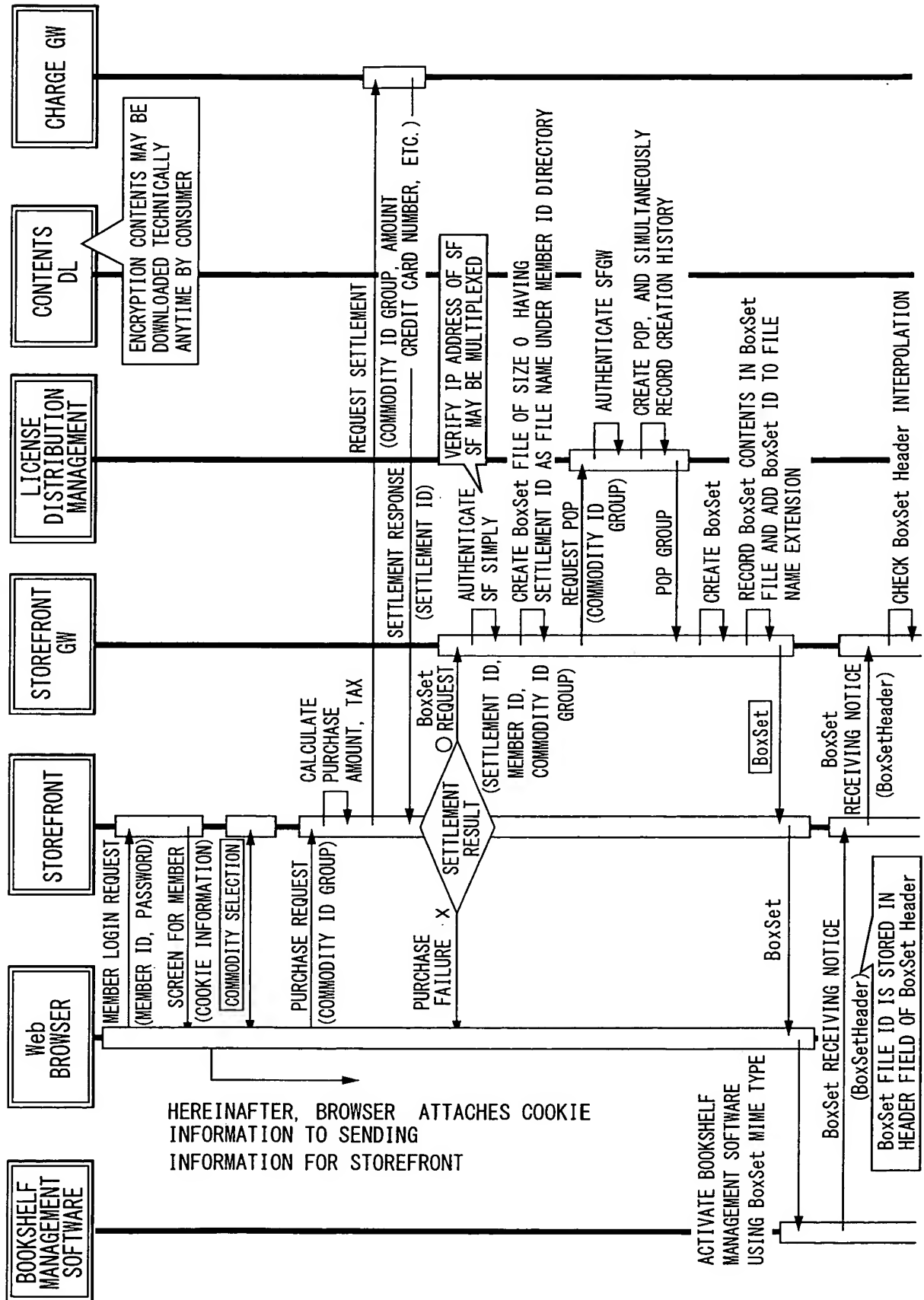


FIG. 9



8/40

FIG. 10





9/40

FIG. 11

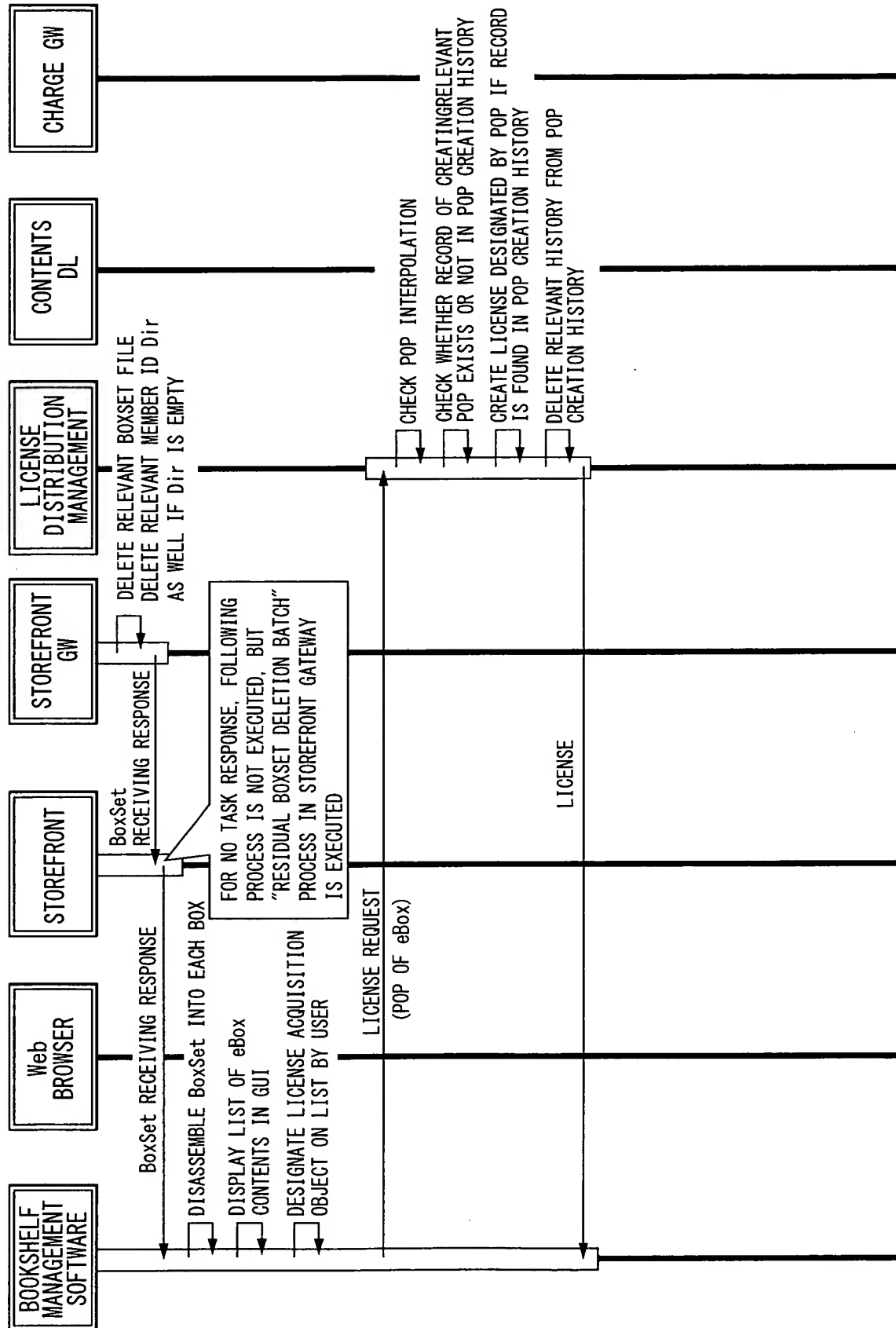


FIG. 12

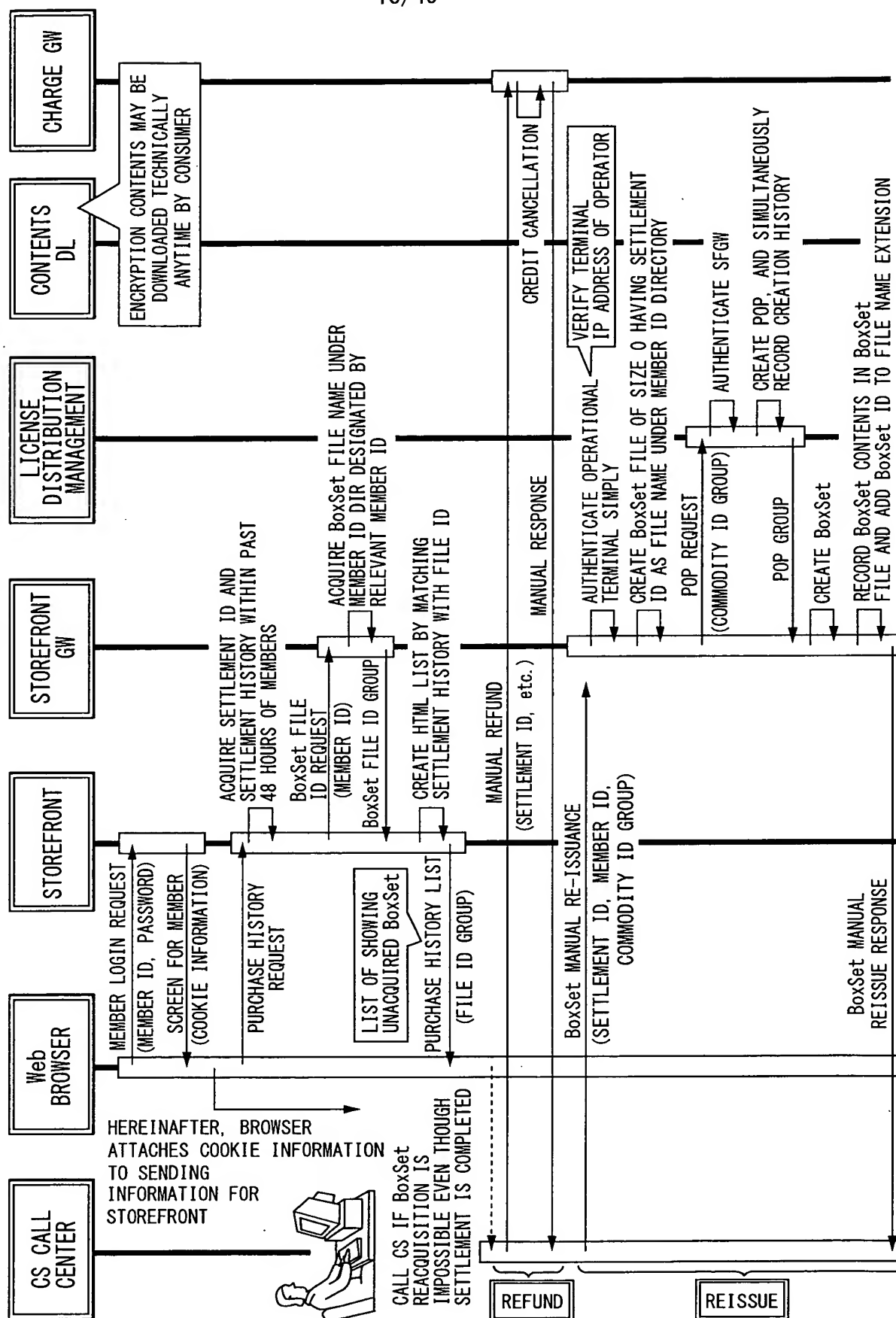
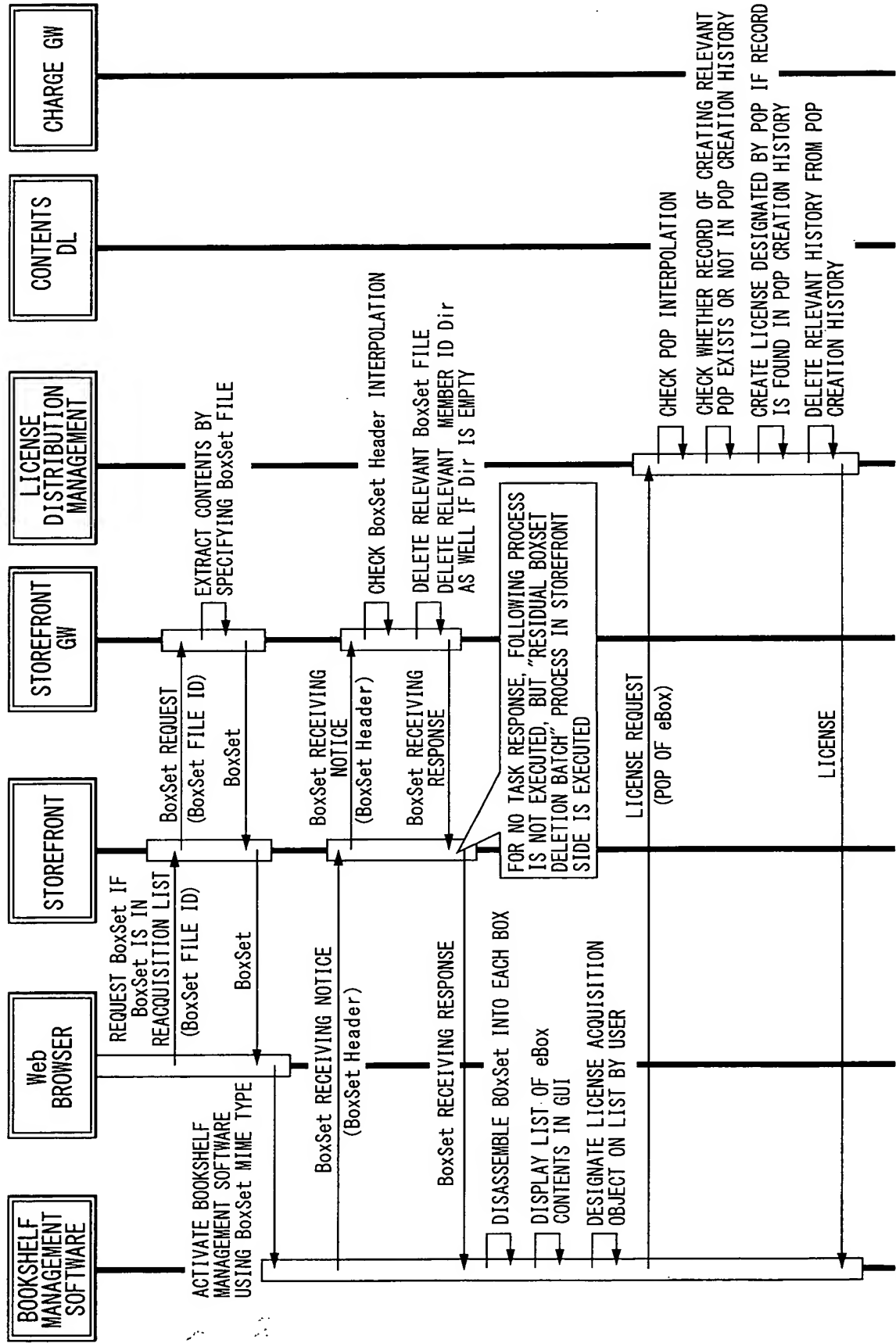
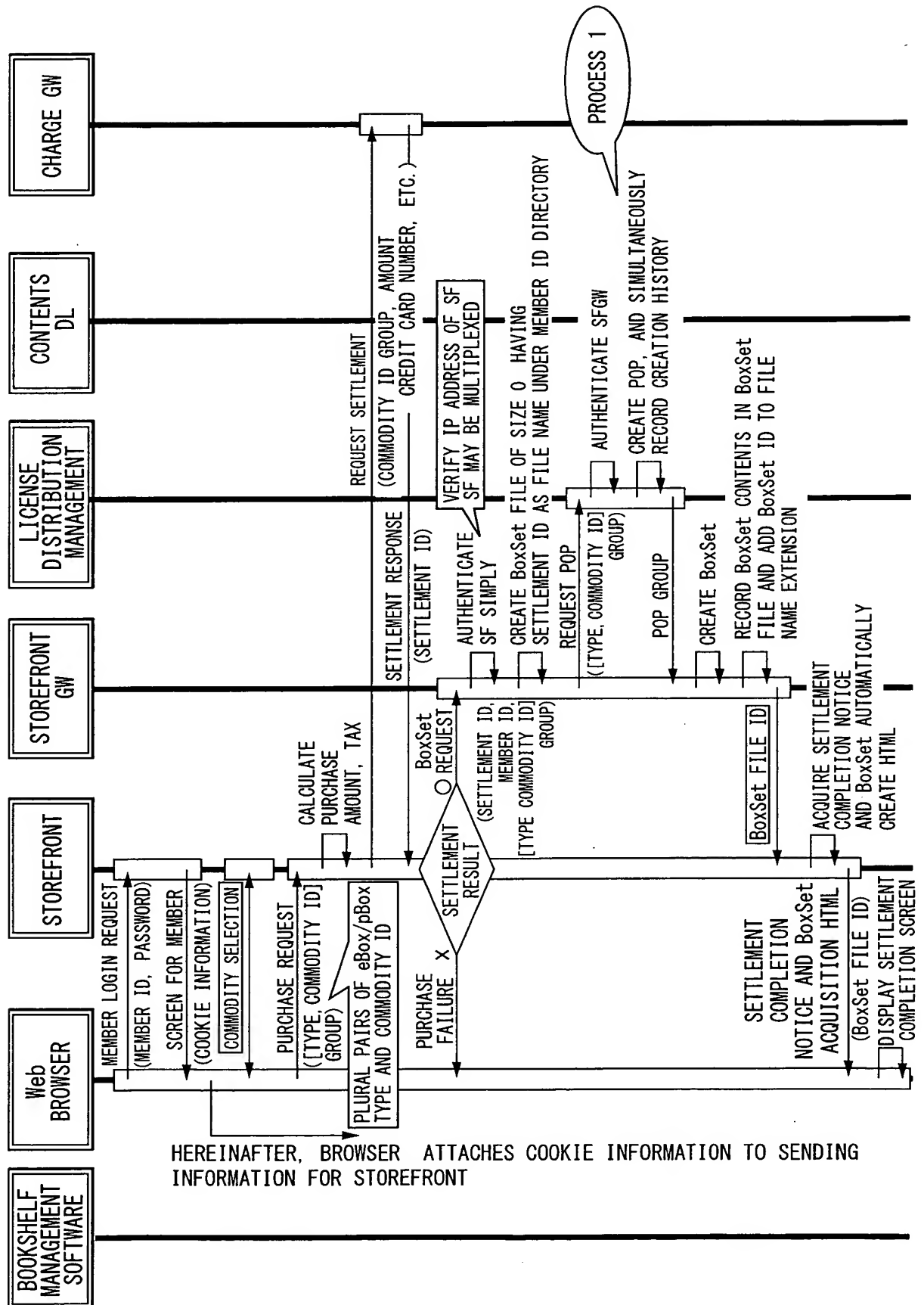


FIG. 13



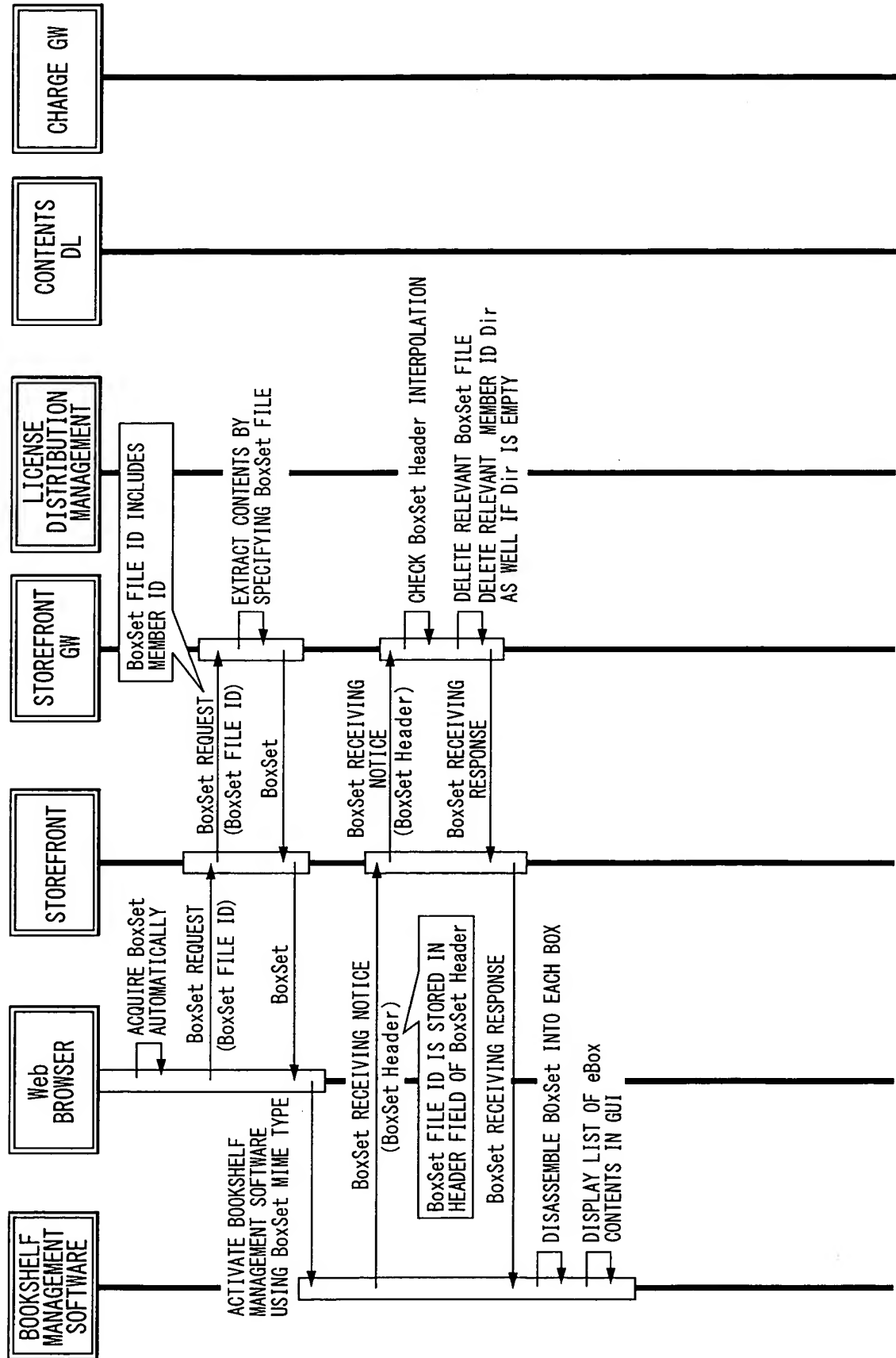
12/40

FIG. 14



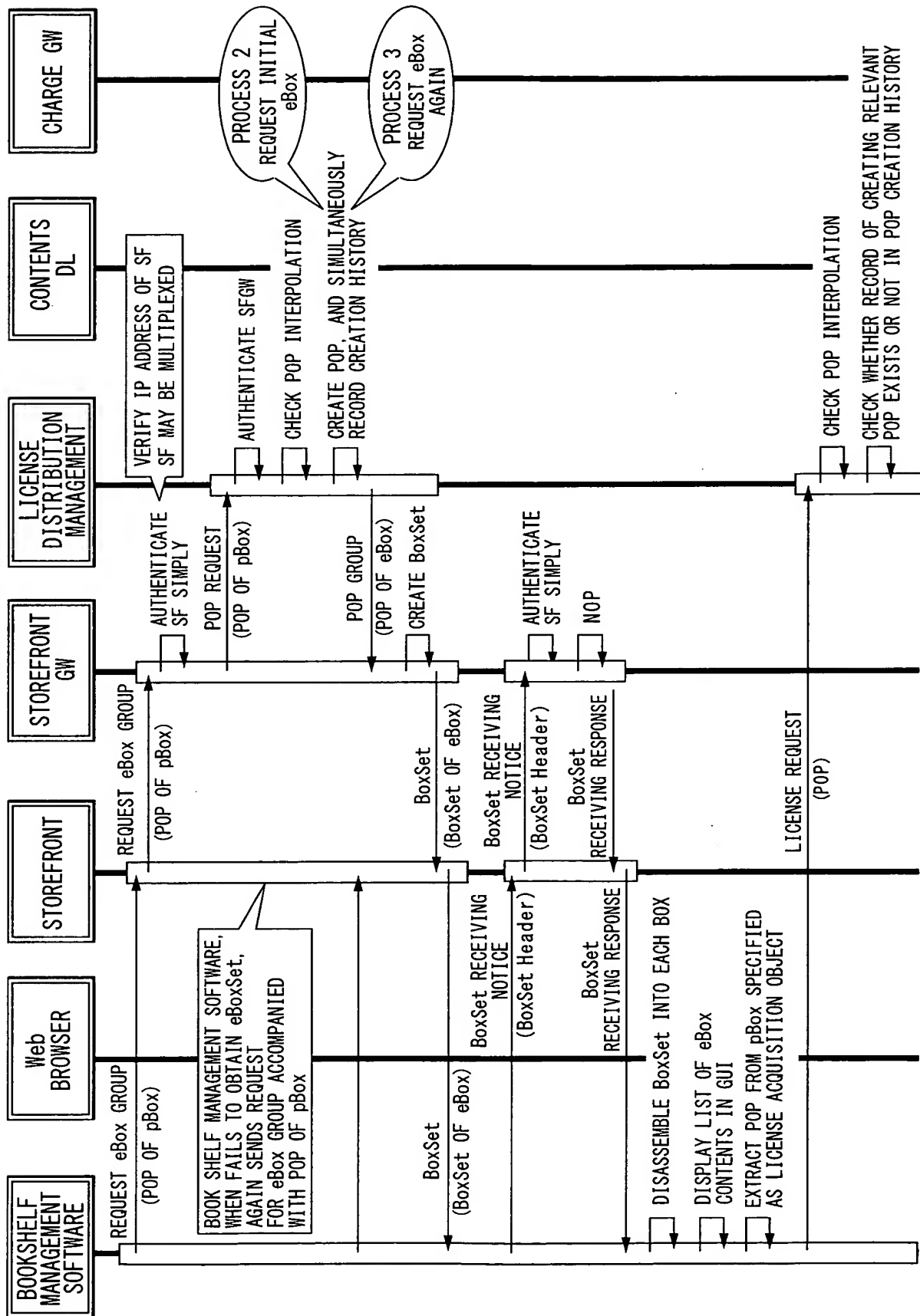
13/40

FIG. 15



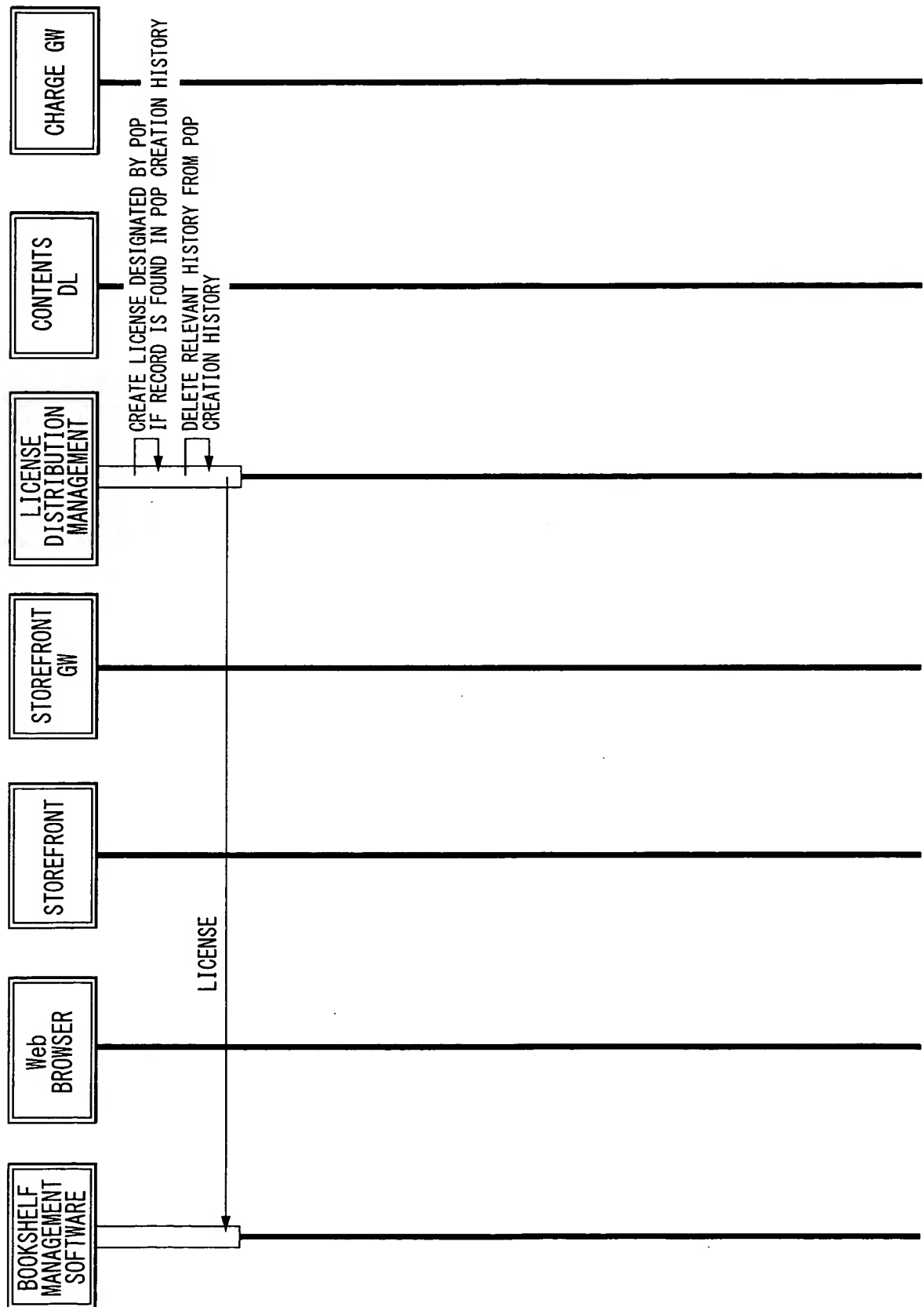
14/40

FIG. 16



15/40

FIG. 17



16/40

FIG. 18

① CONTENTS CAN BE COMMERCIALIZED USING PLURAL UsageRules.

[EXAMPLE]

MONTH	○ × MARCH 2003 ISSUE...	
	USAGE RIGHT FOR THREE DAYS	¥150-
	USAGE RIGHT FOR SEVEN DAYS	¥350-
	USAGE RIGHT FOR ONE MONTH	¥550-
	USAGE RIGHT FOR AN INDEFINITE PERIOD	¥850-

② IF THE CONTENTS ARE PERIODICAL PUBLICATION, THE RIGHT OF TAKING  
SUBSCRIPTION OF THE LICENSE COMMODITY CAN BE COMMERCIALIZED.

[EXAMPLE]

MONTH	EACH ISSUE OF ○ × ...	
	USAGE RIGHT FOR THREE DAYS	
	SIX MONTHS	¥850-
	TWELVE MONTHS	¥1,650-
	USAGE RIGHT FOR SEVEN DAYS	
	SIX MONTHS	¥2,000-
	TWELVE MONTHS	¥3,850-
	USAGE RIGHT FOR ONE MONTH	
	SIX MONTHS	¥3,000-
	TWELVE MONTHS	¥6,050-
	USAGE RIGHT FOR AN INDEFINITE PERIOD	
	SIX MONTHS	¥5,000-
	TWELVE MONTHS	¥9,350-

③ IF THE CONTENTS ALREADY EXIST, PLURAL LICENSE COMMODITIES  
CAN BE COMMERCIALIZED AS A BATCH.

[EXAMPLE]

EACH ISSUE OF ALL SEVENTEEN TECHNICAL MAGAZINES DESCRIBING DRM:	
USAGE RIGHT FOR THREE DAYS	¥2,400-
USAGE RIGHT FOR SEVEN DAYS	¥5,600-
USAGE RIGHT FOR ONE MONTH	¥8,800-
USAGE RIGHT FOR AN INDEFINITE PERIOD	¥13,600-



17/40

FIG. 19

PROOF OF PURCHASE

PROOF OF PURCHASE ID
eBox/pBox TYPE
COMMODITY ID
PURCHASE ITEM NAME
CONTENTS DOWNLOADING URL
PURCHASE AMOUNT (EXCLUSIVE OF TAX)
CONSUMPTION TAX RATE
PURCHASE DATE AND TIME
IP ADDRESS OF PURCHASE TERMINAL
SHOP NAME PURCHASING ITEMS
STOREFRONT URL
NAME OF LICENSE DISTRIBUTOR
NAME OF CUSTOMER SUPPORT SERVICE
SUPPORT SERVICE TELEPHONE NUMBER
SUPPORT SERVICE Email ADDRESS
SIGNATURE DATA

18/40

FIG. 20

pBOX

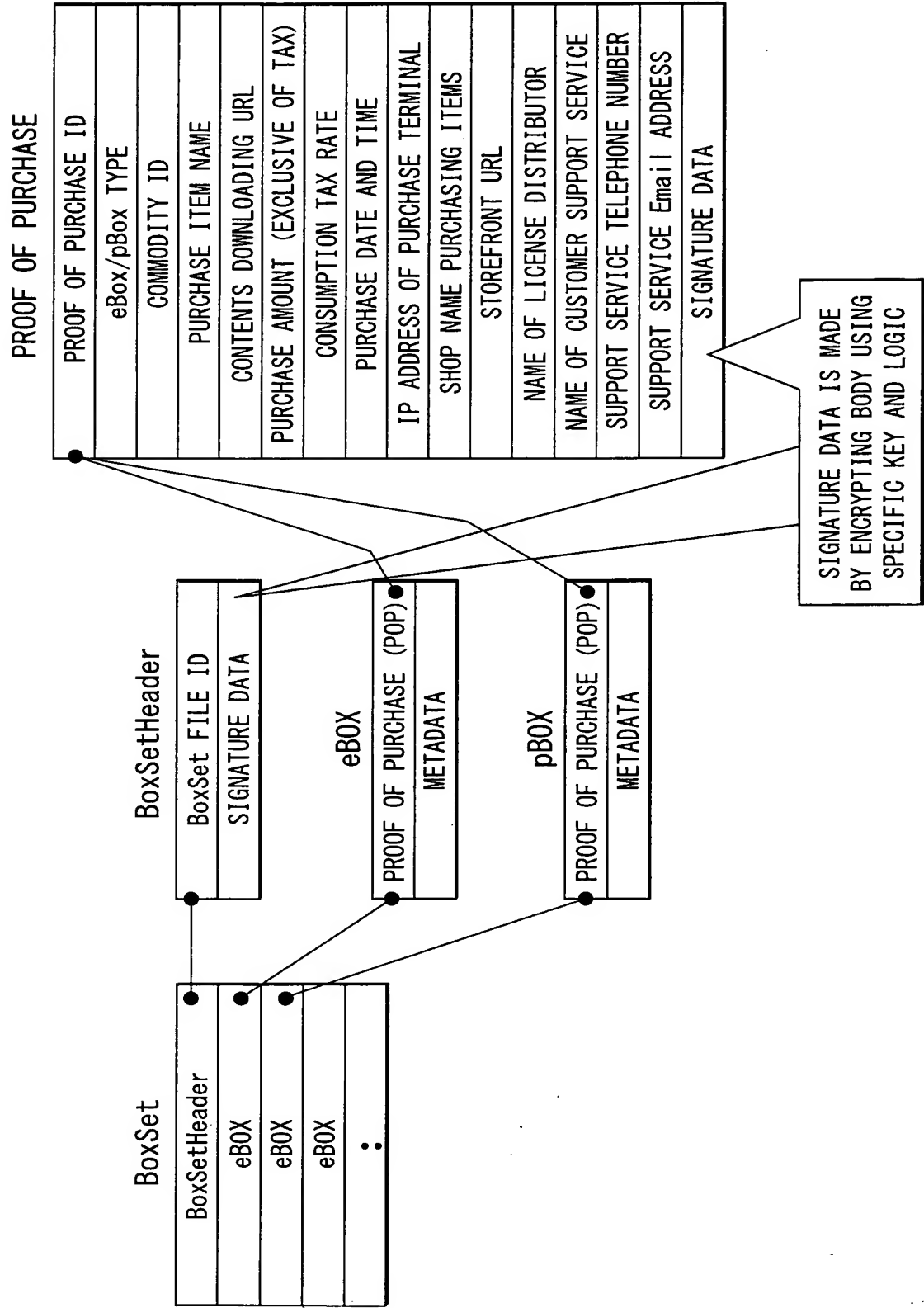
PROOF OF PURCHASE (POP)
METADATA

FIG. 21

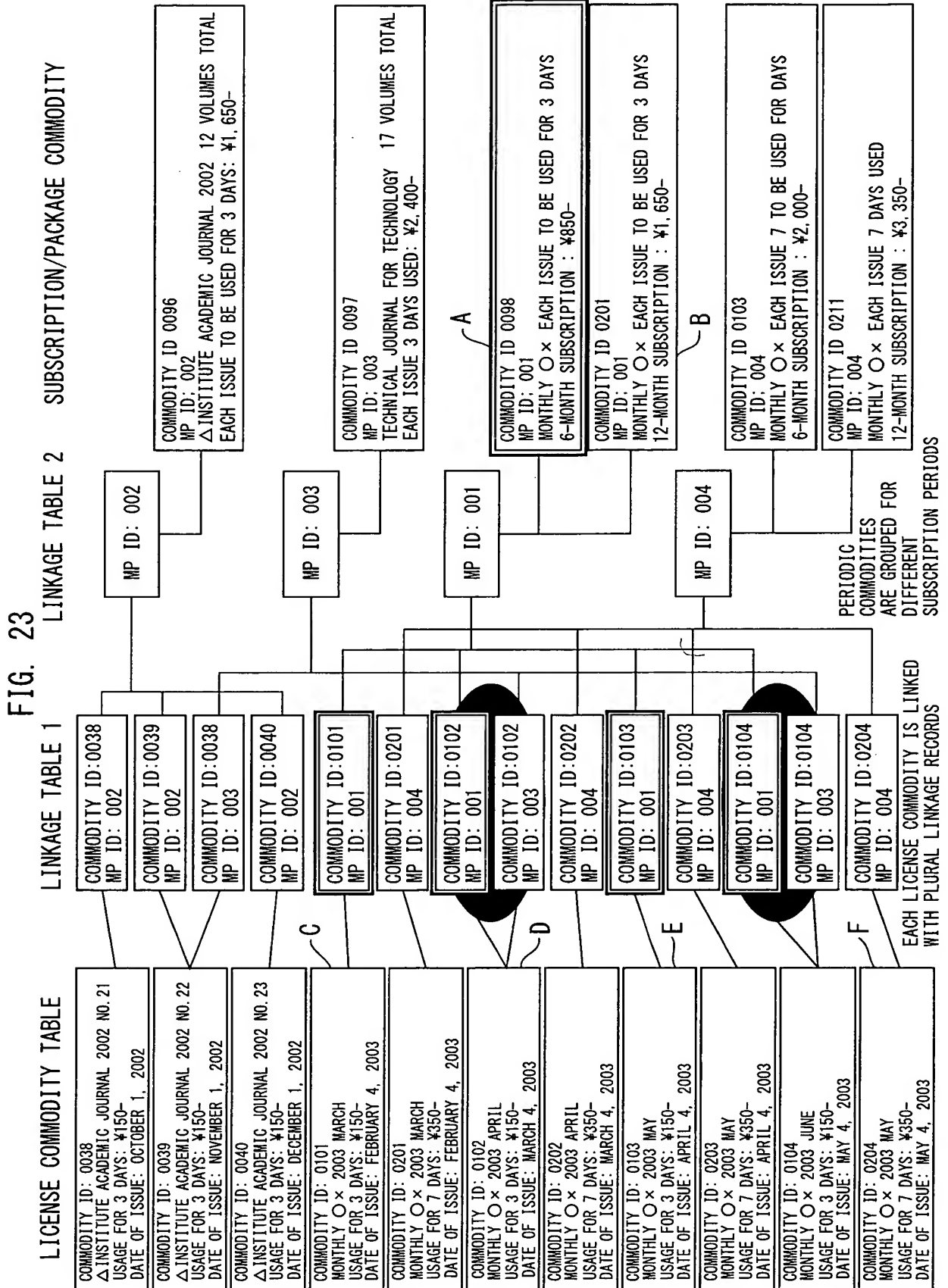
BoxSet

BoxSetHeader
eBOX
pBOX
eBOX
:

FIG. 22



20/40



21/40

FIG. 24

CREATED pBox PROOF OF PURCHASE

PROOF OF PURCHASE ID = 00326
eBox/pBox TYPE = pBox
COMMODITY ID = 0098
PURCHASE ITEM NAME = ...
CONTENTS DOWNLOADING URL = ...
PURCHASE AMOUNT (EXCLUSIVE OF TAX) = ...
CONSUMPTION TAX RATE = ...
PURCHASE DATE AND TIME = 2003/01/03 15:27:32
IP ADDRESS OF PURCHASE TERMINAL = ...
SHOP NAME PURCHASING ITEMS = ...
STOREFRONT URL
NAME OF LICENSE DISTRIBUTOR = ...
NAME OF CUSTOMER SUPPORT SERVICE = ...
SUPPORT SERVICE TELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ...
SIGNATURE DATA

AUTOMATIC NUMBERING IN  
THE CASE OF ADDING RECORD TO  
POP CREATION HISTORY TABLE

TYPE AND COMMODITY ID DESIGNATED  
BY CONSUMER Web BROWSER

FIG. 25

POP CREATION HISTORY TABLE						
PROOF OF PURCHASE ID	EXPIRATION PERIOD	COMMODITY ID	PARENT POP ID	LAST PROVISION DATA AND TIME		
：	：		：		：	
00324	2003/05/22 ...	0038	—		—	
00325	2003/05/25 ...	0202	—		—	
00326	2003/07/03 15:27:31	0098	—	2003/01/03 15:27:31		

TOOL OF DELETING UNNECESSARY  
RECORDS DELETES EXPIRED RECORDS

23/40

FIG. 26

(a)

CREATED eBox  
 PROOF OF PURCHASE ①

PROOF OF PURCHASE ID = 00340
eBox/pBox TYPE = eBox
COMMODITY ID = 0101
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

(b)

CREATED eBox  
 PROOF OF PURCHASE ②

PROOF OF PURCHASE ID = 00341
eBox/pBox TYPE = eBox
COMMODITY ID = 0102
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

(c)

CREATED eBox  
 PROOF OF PURCHASE ③

PROOF OF PURCHASE ID = 00342
eBox/pBox TYPE = eBox
COMMODITY ID = 0103
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

(d)

CREATED eBox  
 PROOF OF PURCHASE ④

PROOF OF PURCHASE ID = 00343
eBox/pBox TYPE = eBox
COMMODITY ID = 0104
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

24/40

FIG. 27

POP CREATION HISTORY TABLE

PROOF OF PURCHASE ID	EXPIRATION PERIOD	COMMODITY ID	PARENT POP ID	LAST PROVISION DATE AND TIME
:	:	:	:	:
00324	2003/05/22 ...	0038	—	—
00325	2003/05/25 ...	0202	—	—
00325	2003/07/03 15:27:31	0098	—	2003.06.06 13:21
:	:	:	:	:
00340	2003/05/22 12:47:21	0101	00326	—
00341	2003/05/22 12:47:21	0102	00326	—
00342	2003/05/22 12:47:21	0103	00326	—
00343	2003/05/22 12:47:21	0104	00326	—



25/40

FIG. 28

POP CREATION HISTORY TABLE				
PROOF OF PURCHASE ID	EXPIRATION PERIOD	COMMODITY ID	PARENT POP ID	ID OF EXISTING COMMODITY ID TO BE PROVIDED
:	:	:	:	:
00324	2003/05/22 ...	0038	—	—
00325	2003/05/25 ...	0202	—	—
00325	2003/07/03 15:27:31	0098	—	0101. 0102. 0103. 0104
:	:	:	:	:
00340	2003/05/22 12:47:21	0101	00326	—
00341	2003/05/22 12:47:21	0102	00326	—
00342	2003/05/22 12:47:21	0103	00326	—
00343	2003/05/22 12:47:21	0104	00326	—

SINCE LICENSE ACQUISITION SEQUENCE USING pBox PROOF OF PURCHASE CANNOT BE FOUND, THIS RECORD EXISTS UNTIL EXPIRATION DATE.

ALTHOUGH LICENSE IS ACQUIRED USING RELEVANT PROOF OF PURCHASE, THIS RECORD IS DELETED AFTER EXPIRATION DATE.

26/40

FIG. 29

POP CREATION HISTORY TABLE

PROOF OF PURCHASE ID	EXPIRATION PERIOD	COMMODITY ID	PARENT POP ID	LAST PROVISION DATE AND TIME
:	:	:	:	:
00324	2003/05/22 ...	0038	—	—
00325	2003/05/25 ...	0202	—	—
00325	2003/07/03 15:27:31	0098	—	2003.06.06 13:21
:	:	:	:	:
00340	2003/05/22 12:47:21	0101	00326	—
00341	2003/05/22 12:47:21	0102	00326	—
00342	2003/05/22 12:47:21	0103	00326	—
00343	2003/05/22 12:47:21	0104	00326	—

REUSE OF PROOF OF PURCHASE ID

CONSTANTLY eBox FOR RE-ISSUANCE

LICENSE COMMODITY TABLE

(a) CREATED eBox PROOF OF PURCHASE ①

PROOF OF PURCHASE ID = 00340
eBox/pBox TYPE = eBox
COMMODITY ID = 0101
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

(b) CREATED eBox PROOF OF PURCHASE ②

PROOF OF PURCHASE ID = 00341
eBox/pBox TYPE = eBox
COMMODITY ID = 0102
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

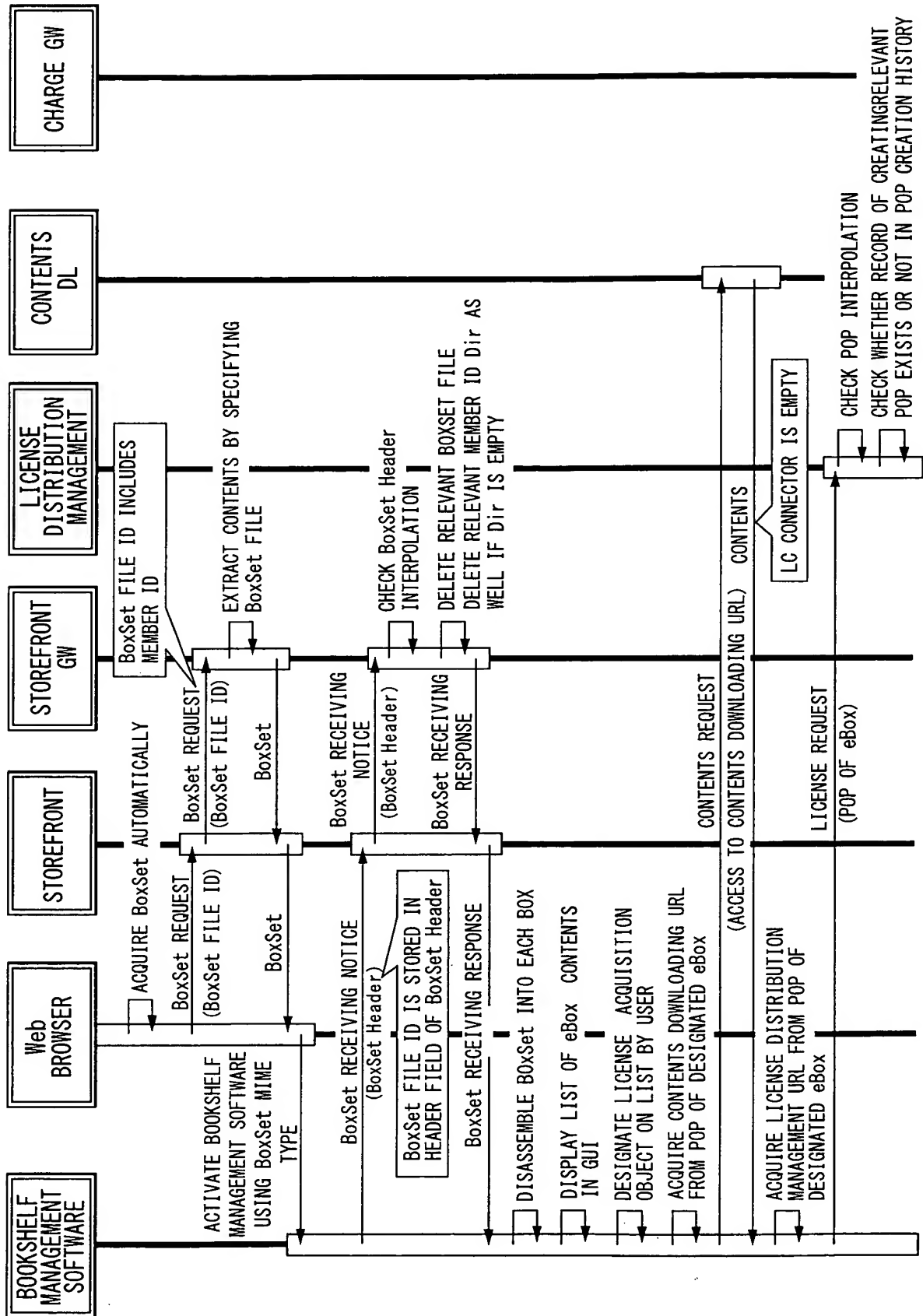
(c) CREATED eBox PROOF OF PURCHASE ③

PROOF OF PURCHASE ID = 00342
eBox/pBox TYPE = eBox
COMMODITY ID = 0103
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

(d) CREATED eBox PROOF OF PURCHASE ④

PROOF OF PURCHASE ID = 00343
eBox/pBox TYPE = eBox
COMMODITY ID = 0104
PURCHASE ITEM NAME = .....
:
SUPPORT SERVICE ELEPHONE NUMBER = ...
SUPPORT SERVICE Email ADDRESS = ....
SIGNATURE DATA

FIG. 30



28/40

FIG. 31

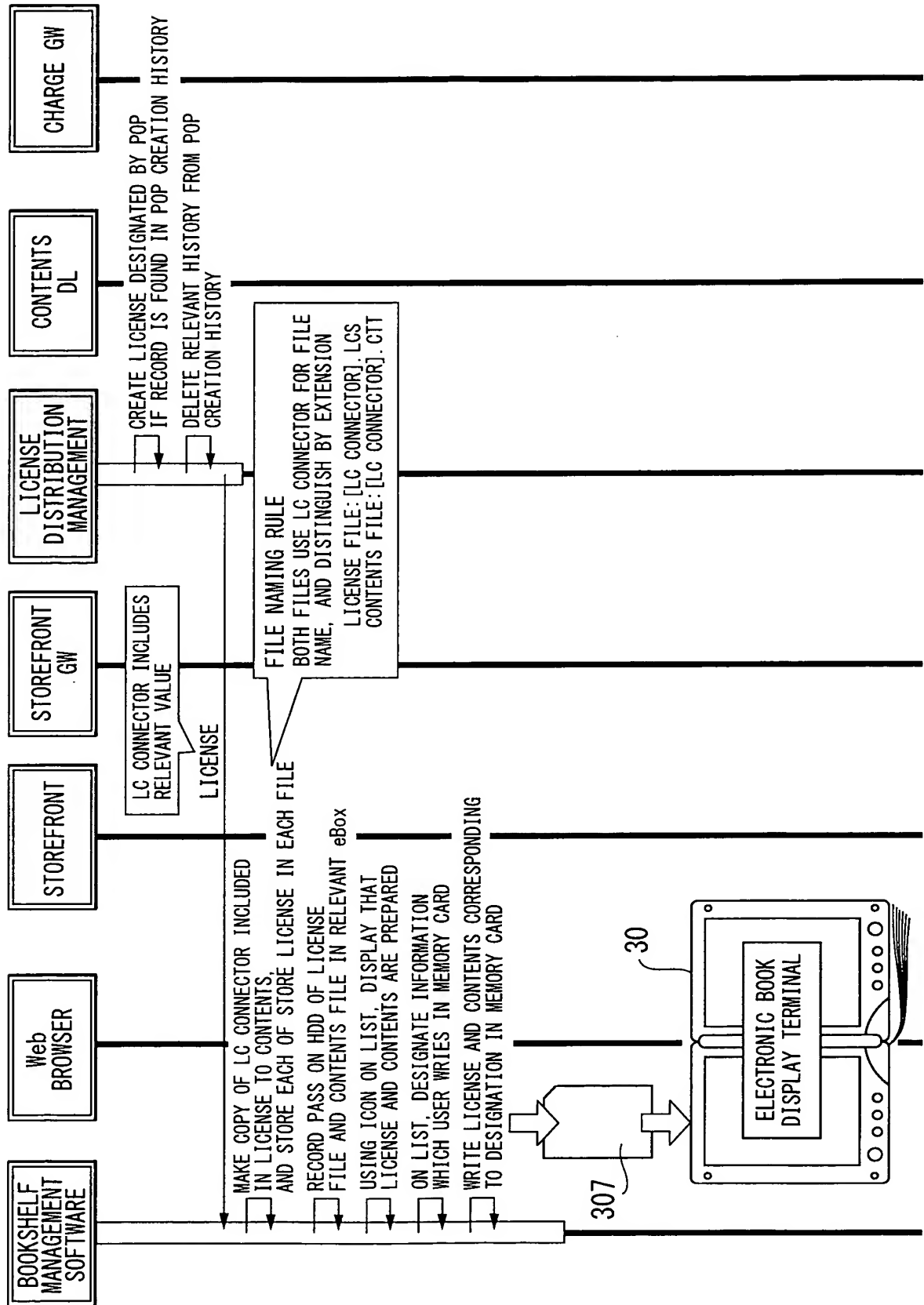


FIG. 32

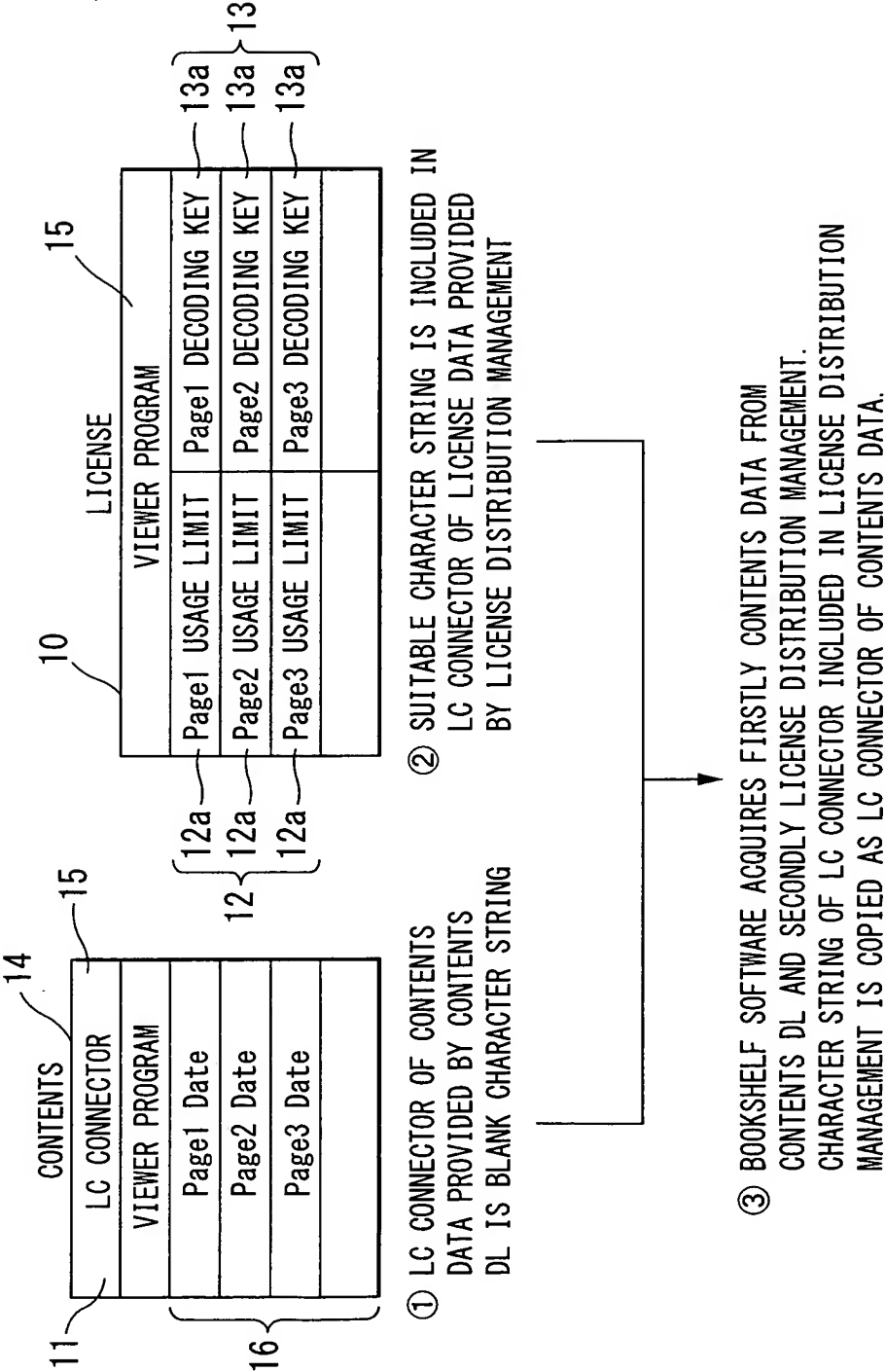


FIG. 33

21		22		23		24	
STATE	TITLE	AUTHOR		PURCHASE DATA AND TIME			
25	MATUSHITA CO. LTD. ...	TARO MATSUSHITA		15:39, JUNE 15, 2003			
26	ELECTRONIC BOOK ...	HANAKO MATUSHITA		15:39, JUNE 15, 2003			
	BUSINESSMAN ENGLISH CONVERSATION ...	MR. SMITH		16:00, JUNE 25, 2003			
	JAPANESE ECONOMY ...	YUTAKA FUGO		07:00, JUNE 26, 2003			
	...	...		...			

FIG. 34

```
graph TD
    307[MEMORY CARD (A)] --- 31[BOOKSHELF MANAGEMENT MEANS (B)]
    31 --- 37[CONTROL MEANS (E)]
    37 --- 34[CLOCK MEANS (G)]
    37 --- 35[USAGE LIMIT CHECK MEANS (H)]
    37 --- 32[ELECTRIC POWER MANAGEMENT MEANS (C)]
    37 --- 36[DISPLAY MEANS (F)]
    34 --- 35
    32 --- 33[INPUT MEANS (D)]
    33 --- 36
```

CURRENT TIMEKEEPING

CLOCK MEANS (G)

34

35

USAGE LIMIT CHECK MEANS (H)

37

CONTROL MEANS (E)

36

DISPLAY MEANS (F)

BOOK LIST OF MEMORY CARD BOOKSHELF CONTENTS

32

ELECTRIC POWER MANAGEMENT MEANS (C)

33

INPUT MEANS (D)

DESIGNATE BOOK TO BE BROWSED  
DESIGNATE PAGE TURNING  
DISPLAY BOOKSHELF

31

BOOKSHELF MANAGEMENT MEANS (B)

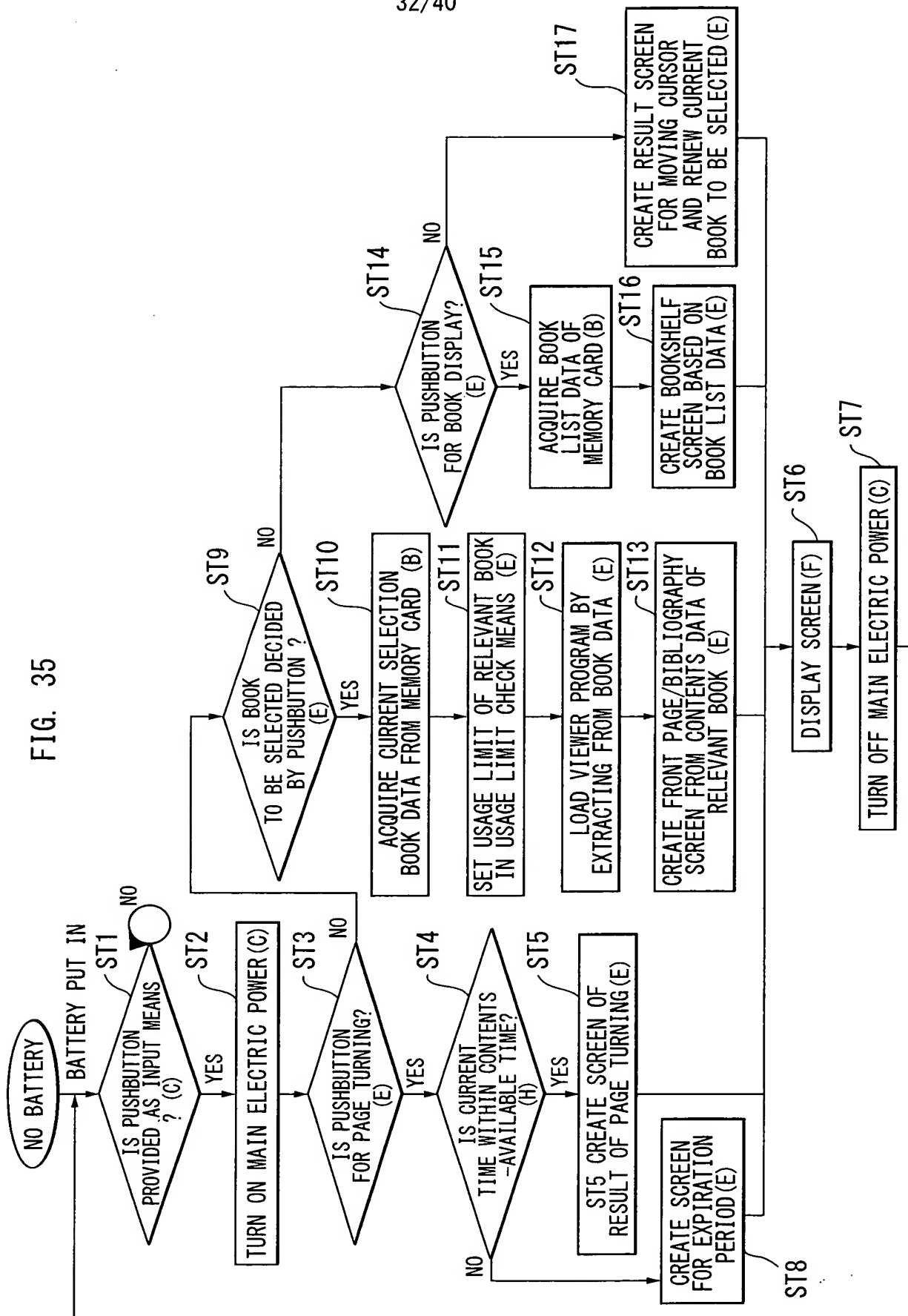
307

MEMORY CARD (A)

DESIGNATE BOOK TO BE BROWSED  
DESIGNATE PAGE TURNING  
DISPLAY BOOKSHELF

32/40

FIG. 35





33/40

FIG. 36

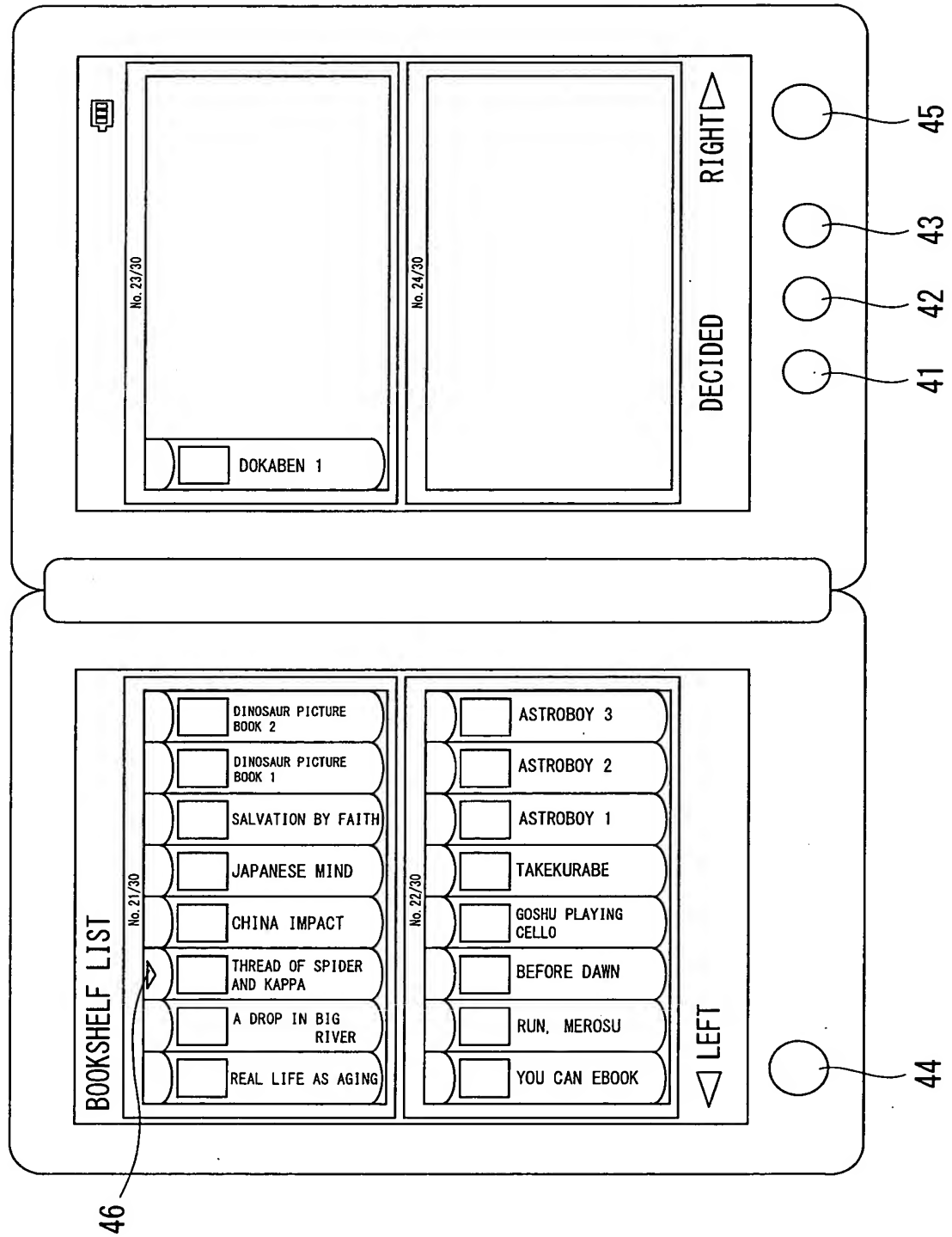


FIG. 37

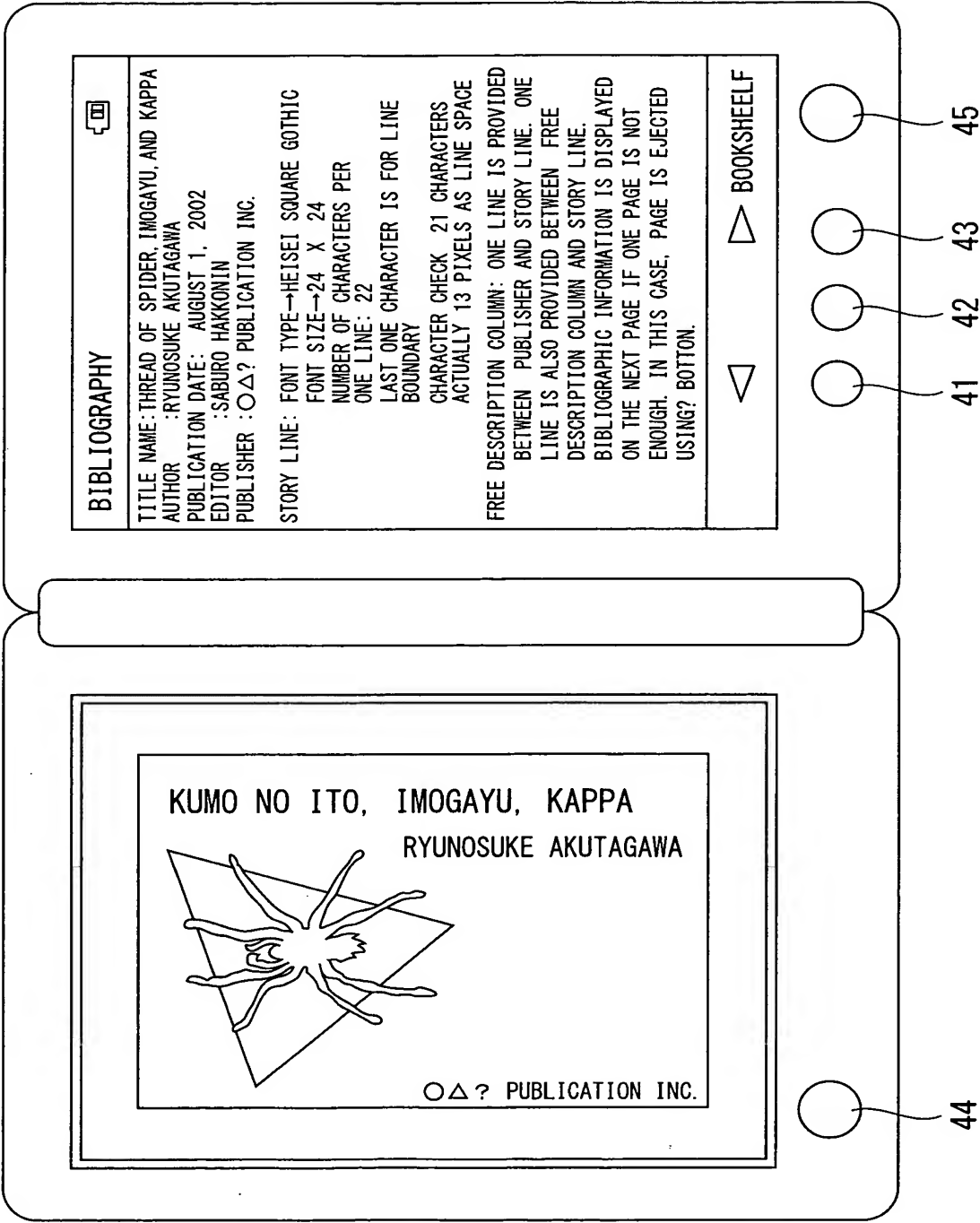
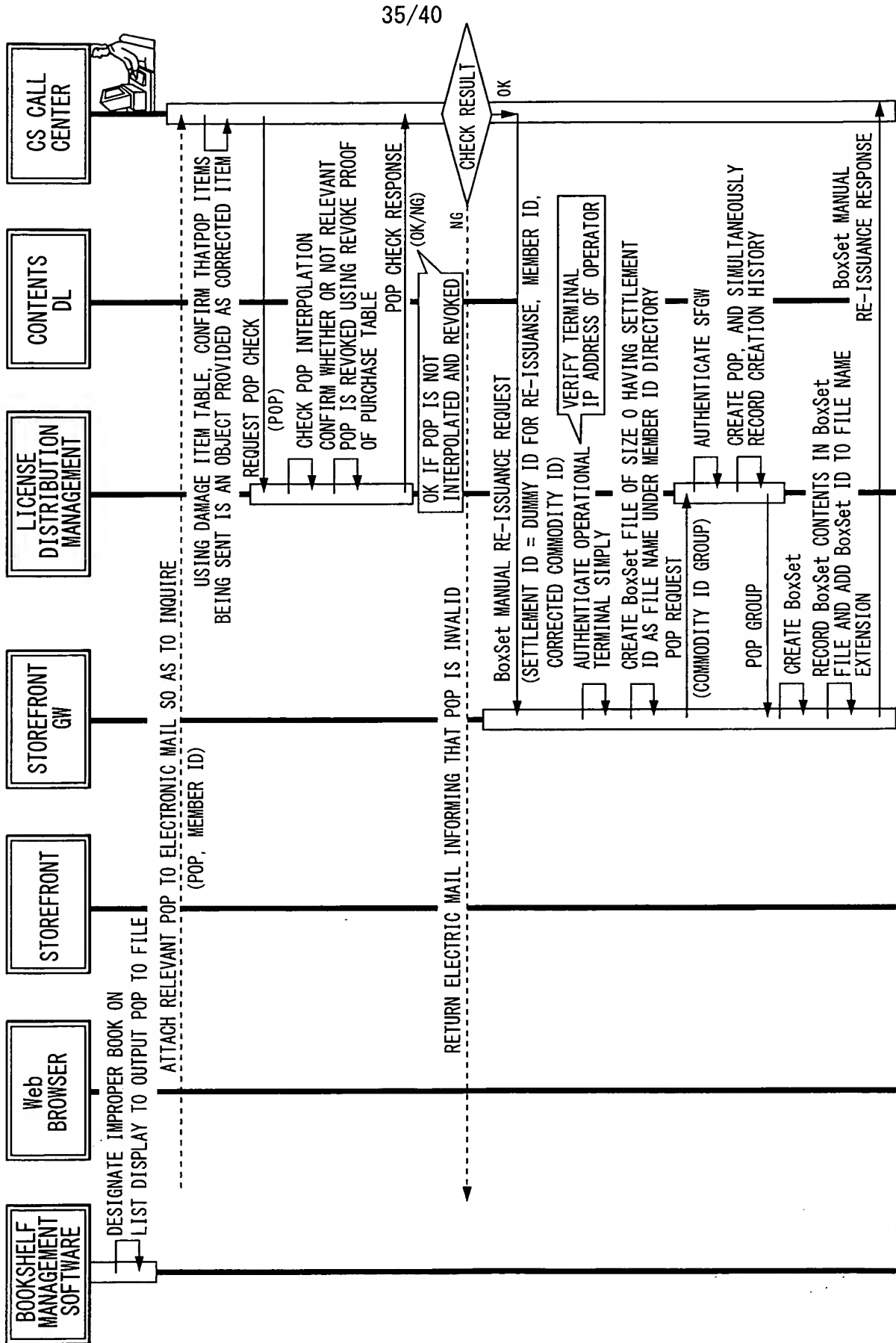


FIG. 38



36/40

FIG. 39

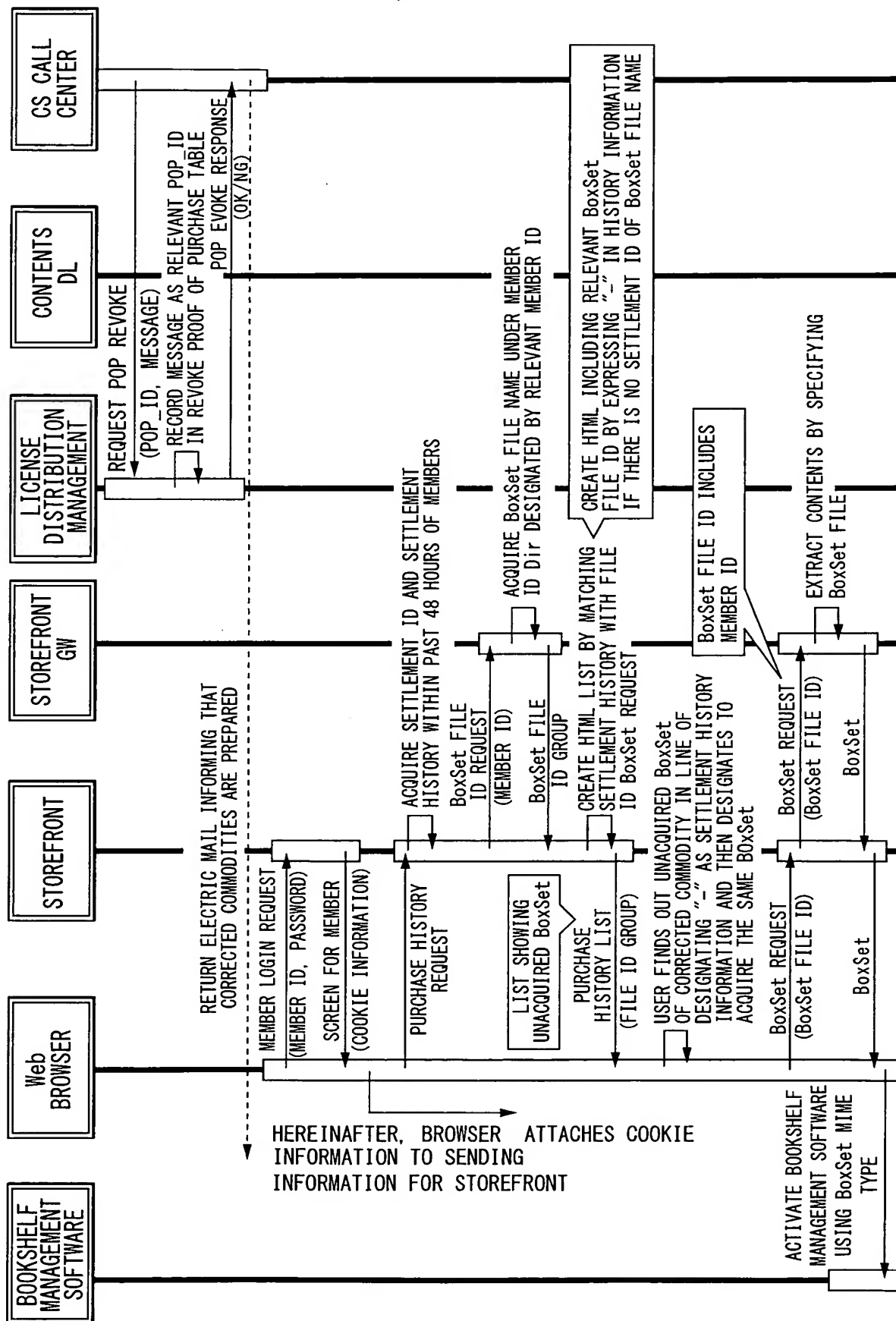


FIG. 40

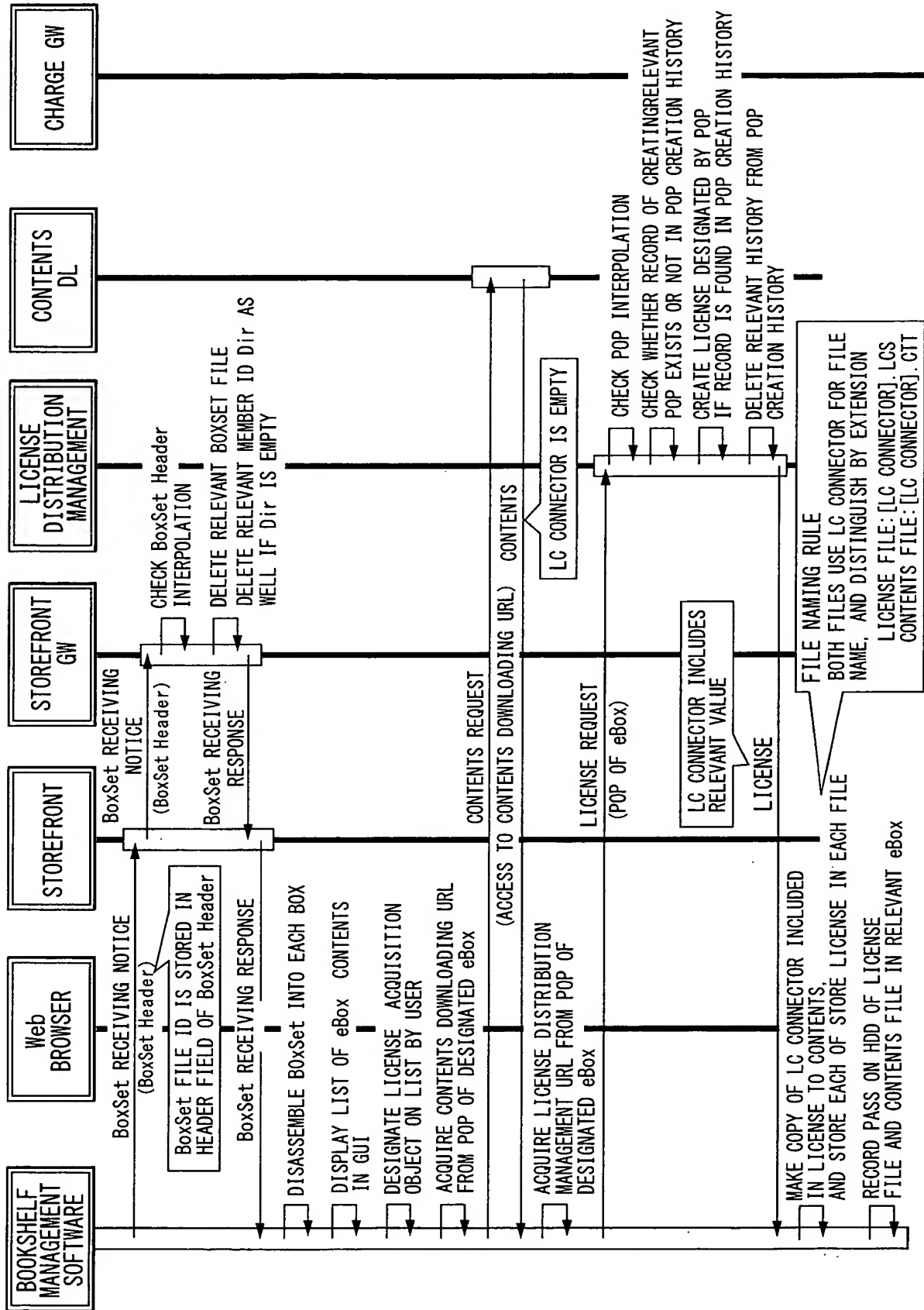
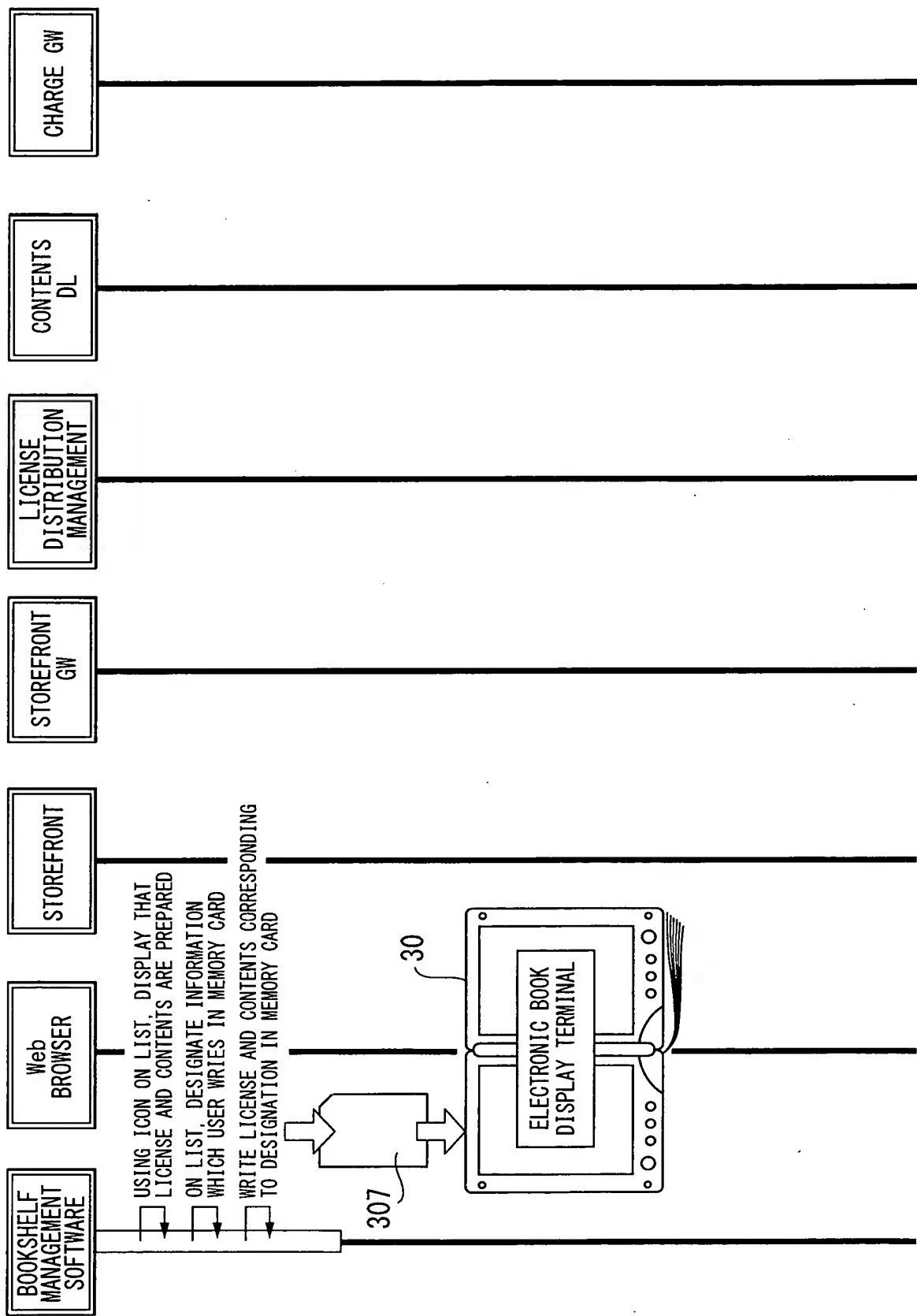


FIG. 41



39/40

FIG. 42

DAMAGED COMMODITY TABLE

DAMAGED COMMODITY ID	CORRECTED COMMODITY ID
0329380	0424933
0362494	2726144
5117162	5627911
3186297	3901151
:	:

40/40

FIG. 43

REVOKE PROOF OF PURCHASE TABLE

PROOF OF PURCHASE ID	REASON FOR REVOKE
92613342	COUNTERMEASURE AGAINST DAMAGE OF COMMODITY 0362494
63238770	COUNTERMEASURE AGAINST DAMAGE OF COMMODITY 0362494
72235186	COUNTERMEASURE AGAINST DAMAGE OF COMMODITY 5117162
41479018	COUNTERMEASURE AGAINST DAMAGE OF COMMODITY 0329380
:	: